

Repair



Interior Texture Sprayers RTX 900 & RTX 1250

311772H

For Water-Based Materials Only

Models: 254974 and 254975

70 psi (0.49 MPa, 4.9 bar)

Maximum Fluid Working Pressure



Important Safety Instructions

Read all warnings and instructions in this manual.
Save these instructions.

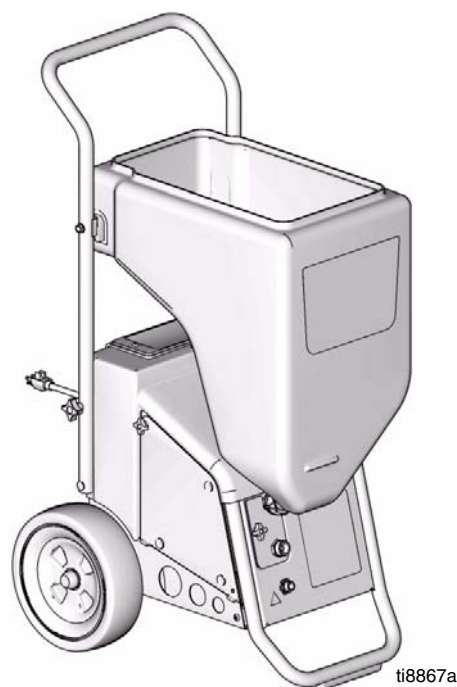
Related Manuals



311777



311768



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Model 254975 Shown

PROVEN QUALITY. LEADING TECHNOLOGY.




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US ETL C
Conforms to ANSI/UL
standard 1450

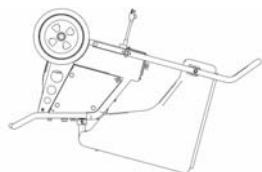
PGT
HO03

Warnings

The following are general warnings related to the setup, use, grounding, maintenance and repair of this equipment. Additional, more specific warnings may be found throughout the body of this manual where applicable. Symbols appearing in the body of the manual refer to these general warnings. When these symbols appear through the manual, refer back to these pages for a description of the specific hazard.

	Warnings
	<p>Fire and Explosion Hazard Improper grounding, poor ventilation, open flames or sparks can cause a hazardous condition and result in fire or explosion and serious injury.</p> <ul style="list-style-type: none"> • The system is for use with water-based materials only. Only use fluids compatible with the equipment. Refer to Technical Data of all equipment manuals. Read fluid and solvent manufacturers warnings. • Ground all equipment in the work area. See Grounding and Electrical Requirements, page 6. • If there is any static sparking or you feel an electric shock while using this equipment, stop spraying immediately. Do not use the equipment until you identify and correct the problem. • Keep work area free of debris, including solvent, rags and gasoline. • Comply with all applicable state and national fire, electrical and safety regulations. • Keep a fire extinguisher in the work area.
	<p>Equipment Misuse Hazard Equipment misuse can cause equipment to rupture, malfunction, or start unexpectedly and cause serious injury.</p> <ul style="list-style-type: none"> • Before operating this equipment, read all manuals, tags, and labels, including material labels and instructions. • Do not expose system to rain. Always store system indoors. • Do not alter or modify equipment. • Do not spray cementitious materials. • Do not exceed maximum working pressure of lowest rated component in your system. • Check equipment daily. Repair or replace worn or damaged parts immediately. • To reduce risk of serious injury, including electric shock and splashing fluid in eyes, follow Pressure Relief Procedure on page 6 before servicing the unit. • Do not kink or over bend hoses or use hoses to pull equipment. • Route hoses away from traffic areas, sharp edges, moving parts and hot surfaces. Do not expose Graco hoses to temperatures above 130° F (55° C) or below -35° F (-37° C). • Air hoses at the compressor end, can get very hot! Allow sprayer to cool down 15 minutes before removing air hose. • Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines. • Never directly inhale compressed air. Compressed air may contain toxic vapors.

	Warnings
 	<p>Electric Shock Hazard To reduce the risk of electric shock:</p> <ul style="list-style-type: none"> • Be sure sprayer is adequately grounded through electrical outlet, page 6. • Use only 3-wire, extension cords. • Make sure ground prongs are intact on sprayer and extension cords. • Do not operate with cover removed. • Turn off sprayer. Follow Pressure Relief Procedure, page 6, and unplug unit, before removing any parts.
 	<p>Pressurized Equipment Hazard Fluid from gun, leaks or ruptured components can splash in the eyes or on skin and cause serious injury.</p> <ul style="list-style-type: none"> • Follow Pressure Relief Procedure, page 6 when you stop spraying and before cleaning, checking or servicing. • Do not point spray gun at anyone; put hand, fingers or rag over nozzle, or stop or deflect leaks with your hand, body, glove, or rag. • Wear protective clothing, gloves, and eyewear.
	<p>Cleaning Solvent Hazard with Plastic Parts Use only compatible water-based solvents to clean plastic structural or pressure-containing parts. Many solvents can degrade plastic parts to the point where they could fail. Such failure could cause serious injury or property damage. See Technical Data on page 33 of this instruction manual and in all other equipment manuals. Read fluid and solvent manufacturer's warnings.</p>
	<p>Burn Hazard Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns, do not touch hot fluid or equipment. Wait until equipment/fluid has cooled completely.</p>
	<p>Personal Protective Equipment You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:</p> <ul style="list-style-type: none"> • Protective eyewear • Clothing and respirator as recommended by the fluid and solvent manufacturer • Gloves • Hearing Protection

CAUTION

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Water or material remaining in unit when temperatures are below freezing can damage motor and/or delay pump startup.

To insure water and material are completely drained out of unit:

1. Remove material line from sprayer.
2. Tip sprayer up as shown.

Before adding material or starting unit in cold weather, run warm water through pump.

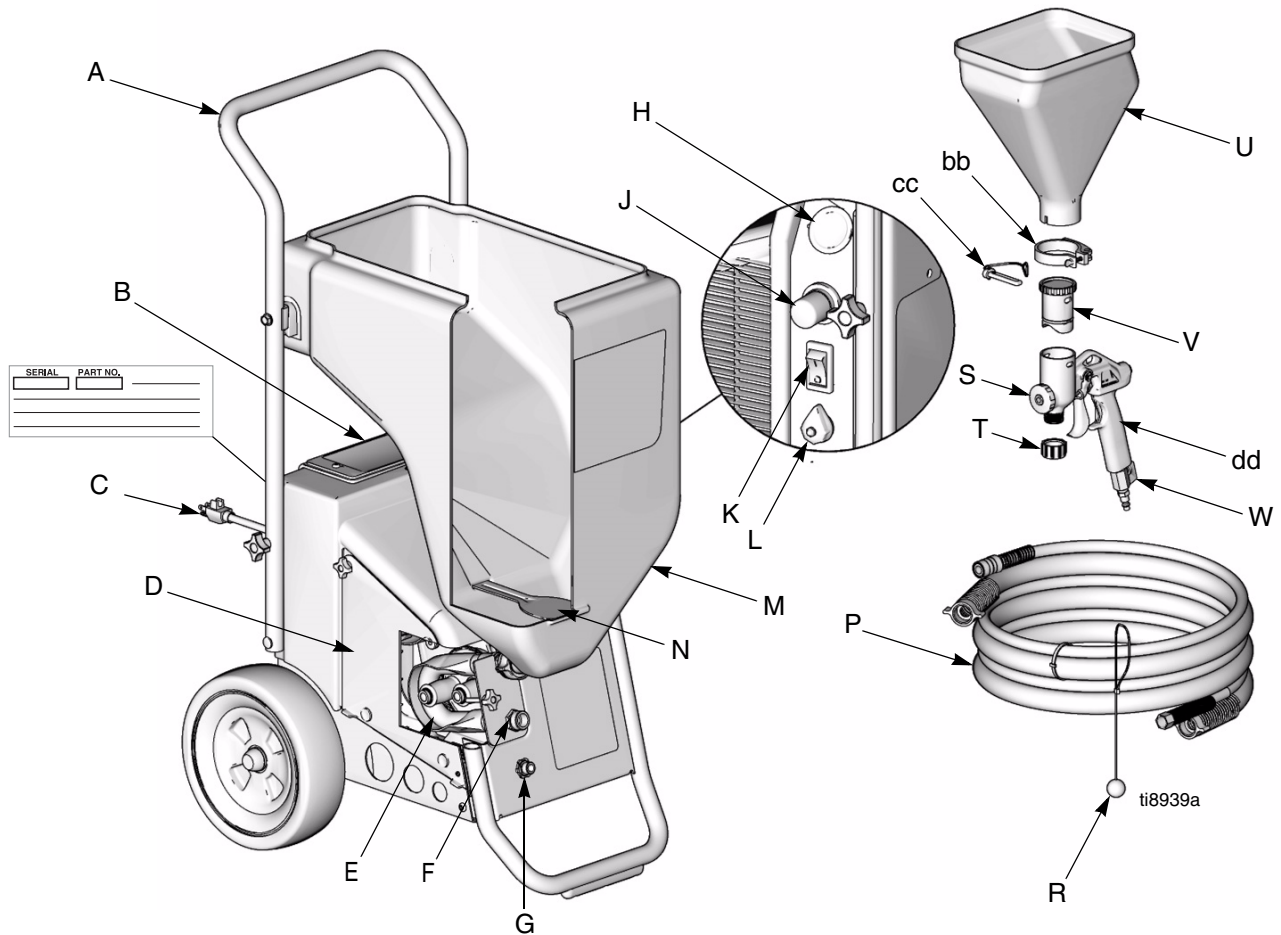


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Before adding material to hopper, install burp guard. When only a small amount of material remains in the hopper, the burp guard prevents material from shooting out when the unit is turned off. This material could splash in the operator's eyes or on skin, or into the air.

Component Identification

Model 254975 Shown



Item	Component	Item	Component
A	Handle	N	Burp Guard
B	Toolbox	P	Material/Air Hose
C	Power Cord (120V, 25 ft)	Q	Accessories Bag
D	Side Pump Access Panel (RTX 1250 Only)	R	Material Thickness Gauge
E	RotoFlex™ II Pump (inside)	S	Nozzle (4 Total)
F	Pump Hose Outlet	T	Hose Plug
G	Air Hose Outlet	U	Touch-Up Hopper (3/4 gallon)
H	Material Flow Gauge	V	Gun Plug
J	Material Flow Control	W	Air Control
K	ON/OFF Switch	bb	Hopper Clamp
L	Selector Switch (Hopper Gun/Sprayer)	cc	Gun Plug Clip
M	Material Hopper - 10 gallon, RTX 900 Material Hopper - 12 gallon, RTX 1250	dd	Hopper Gun

Pressure Relief Procedure

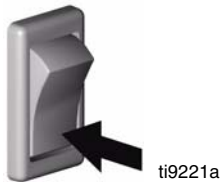
To reduce risk of injury, follow this procedure whenever you see this symbol throughout this manual. Also, perform this procedure whenever you:



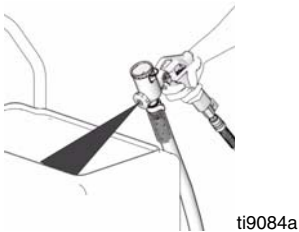
- Stop spraying
- Check or repair any part of this system
- Install or clean spray nozzle



1. Turn Power Switch OFF.



2. Trigger gun into material hopper.



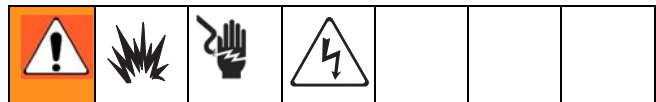
3. Open gun air valve.



Grounding and Electrical Requirements

This sprayer must be grounded. Grounding reduces the risk of electrical shock by providing an escape wire for the electrical current. The sprayer cord includes a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Check with a qualified electrician or if grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded. Do not modify plug provided; if it will not fit the outlet, have proper outlet installed by a qualified electrician.



120V AC Systems

- This equipment requires a 120V AC, 60 Hz, 15A circuit with a grounding receptacle. Do not use an adapter with this product.

Extension Cords

- Use only an extension cord with an undamaged, 3-prong plug.
- For 25 to 50 ft (7.6 to 15.2 m) cords, use 3-wire, 14 AWG (1.5 mm²) minimum.
- For up to 100 ft. (30.48 m) cord, use 3-wire, 12 AWG (2.5 mm²) minimum.

Auxiliary Air Compressor

Do not use an auxiliary air compressor with this spray system.

Generator Requirements

3500 W (3.5 KW) minimum.

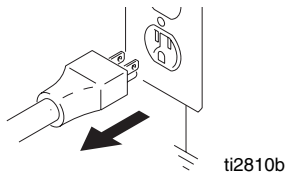
Hose Size and Length

The system comes with a hose set consisting of a 3/4 in. ID x 25 ft (25 mm x 7.6 m) material hose and a 3/8 in-ID air hose.

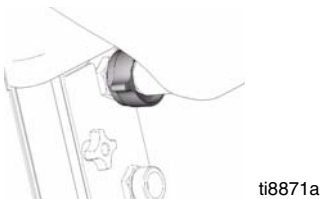
Shroud Removal

Disassembly

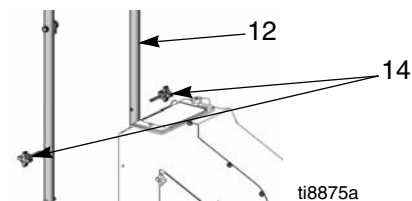
1. **Relieve Pressure**, page 6.
2. Unplug sprayer from outlet.



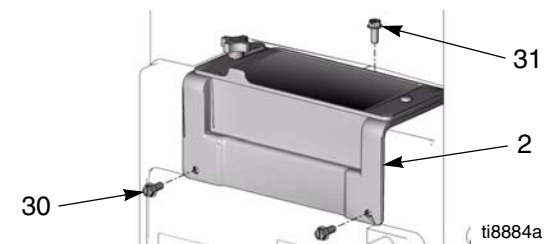
3. Loosen bottom hopper fitting by hand and pull hopper up and off from handle.



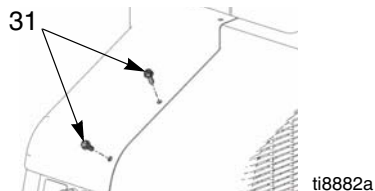
4. Loosen and remove 2 knobs (14) on sprayer handle (12).



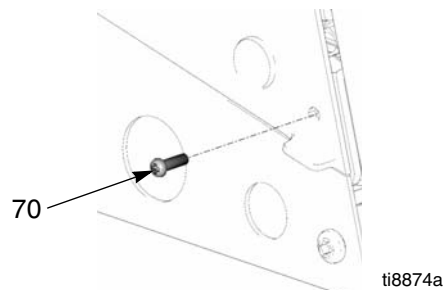
5. Spread handle bars apart and pull up to remove from sprayer.
6. Loosen screws (30) and screw (31) from toolbox and remove toolbox (2) from sprayer.



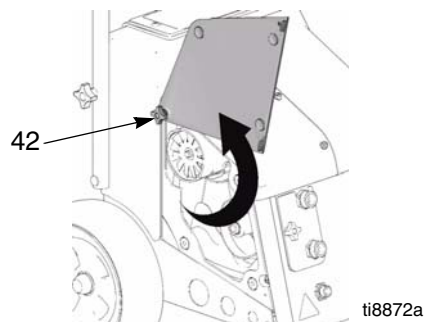
7. Loosen screws (31) on shroud.



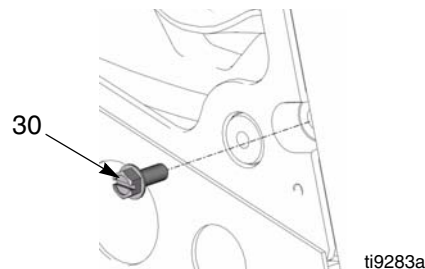
8. Loosen and remove screw (70) from lower right corner of side access panel (RTX1250) only.



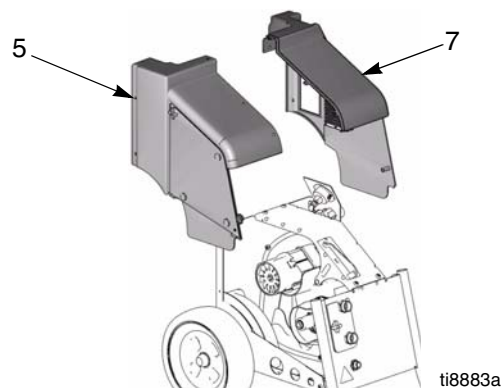
9. Loosen knob (42) on side access panel and swing open door.



10. Use screwdriver to remove second screw (30).

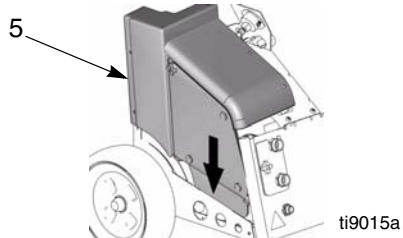


11. Remove two shroud halves (5 and 7) from sprayer.

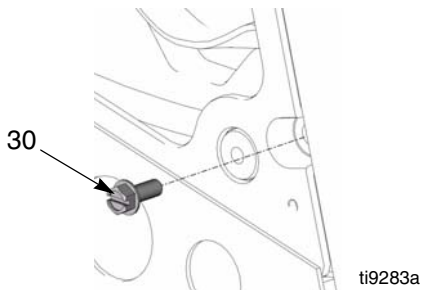


Reassembly

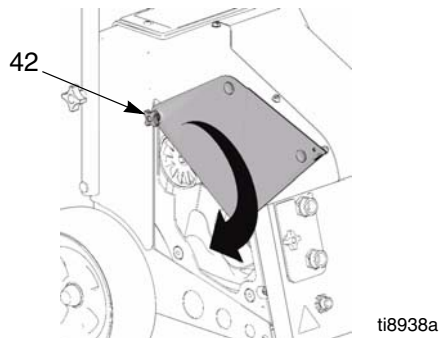
1. Angle left shroud half (5) into base and push down into place. Then replace right shroud half (7).



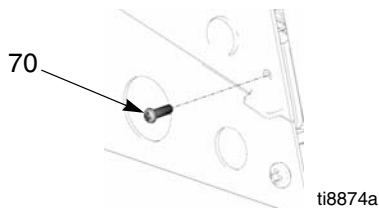
2. Replace and tighten second screw (30).



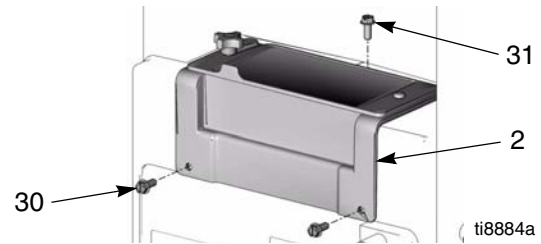
3. Swing access door down (RTX 1250) and tighten knob (42).



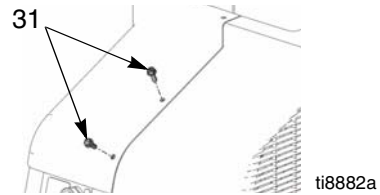
4. Tighten screw (70) into lower right corner of side access plate.



5. Replace toolbox (2) and tighten screws (30) and screw (31).

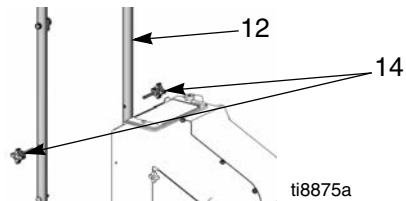


6. Tighten screws (31) on shroud.



7. Spread handle bars apart and slide handle down into place.

8. Tighten 2 knobs (14) on sprayer handle (12).

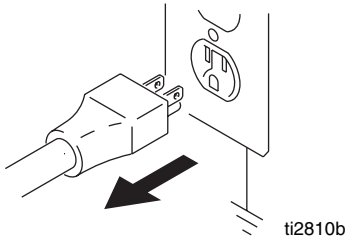


9. Replace hopper and tighten hopper fitting by hand until snug.

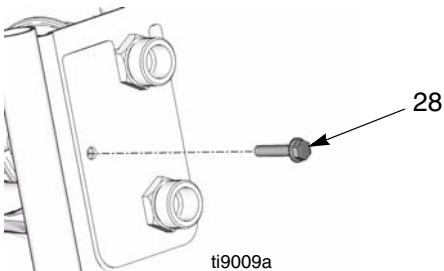
RotoFlex™ II Pump (RTX 900)

Disassemble

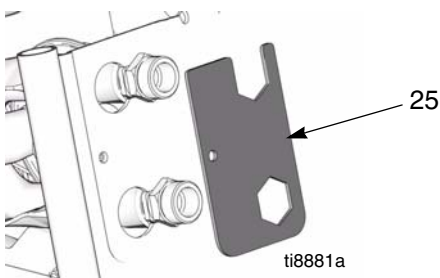
1. **Relieve Pressure**, page 6.
2. Unplug sprayer from outlet.



3. Remove **Shroud**, page 7.
4. Loosen and remove screw (28) on hose bracket.



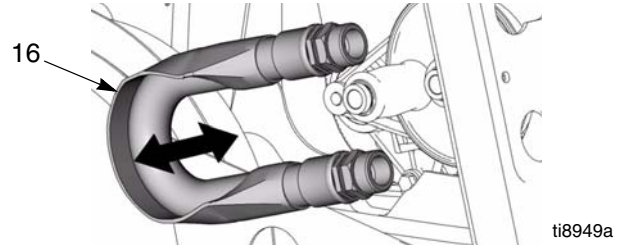
5. Remove hose bracket (25).



6. Slide pump fittings over and push through keyhole slots.

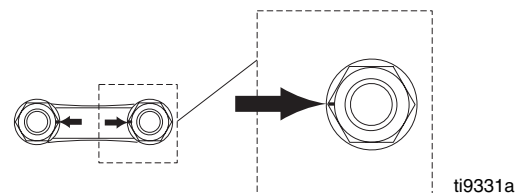


7. Grab pump hose (16) from side of unit and remove pump hose by hand.

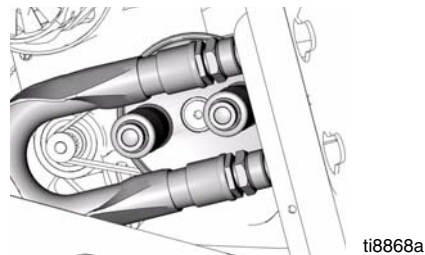


Reassemble

1. Bend hose (16) so colored dots on hose fittings face each other.



2. Slide new pump hose (16) over rollers. Move pump rollers by hand until or flip power switch to rotate rollers until they are positioned correctly with pump hose.

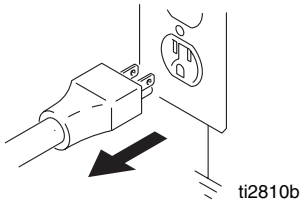


3. Feed pump fittings through front access panel keyhole slots and slide into place.
4. Replace hose bracket (25) to lock pump hose fittings into place.
5. Replace hose bracket (25) and tighten screw (28).
6. Replace **Shroud**, page 7.
7. Break in new pump by adding 1 cup of water to pump and running dry for 3 minutes.

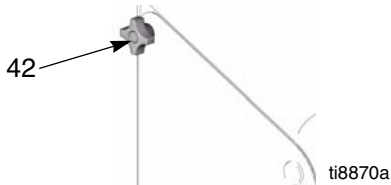
RotoFlex™ II Pump (RTX 1250)

Disassemble

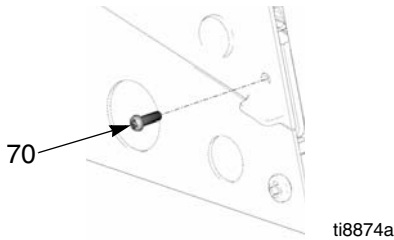
1. **Relieve Pressure**, page 6.
2. Unplug sprayer from outlet.



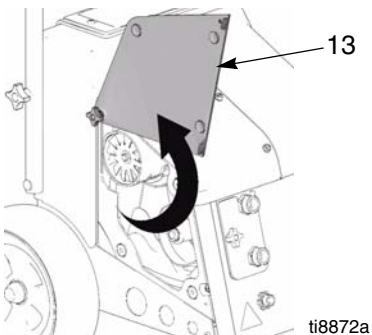
3. Loosen knob (42) on side access panel.



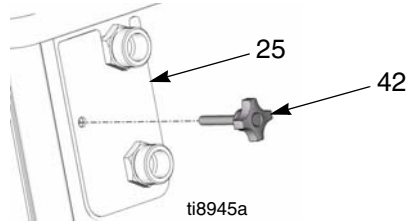
4. Remove screw (70) from side access panel.



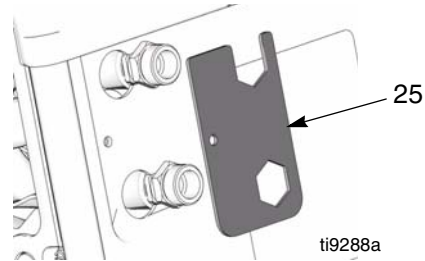
5. Pull access panel (13) out to release 3 fastening tabs and flip up to expose side access to pump.



6. Loosen and remove knob (42) on hose bracket (25).



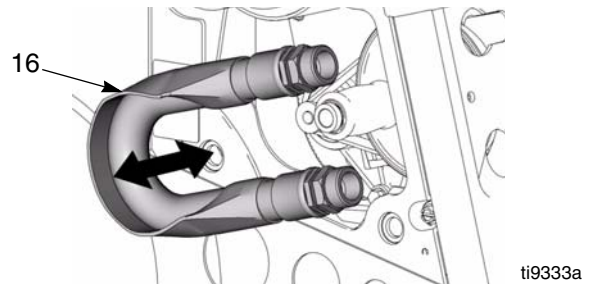
7. Remove hose bracket (25).



8. Slide pump fittings over and through keyhole slots.

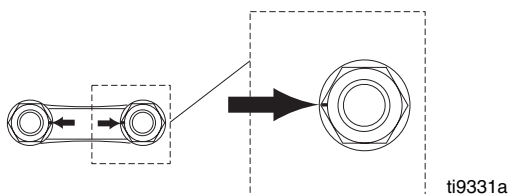


9. Grab pump hose (16) from side access panel and remove pump hose from unit.

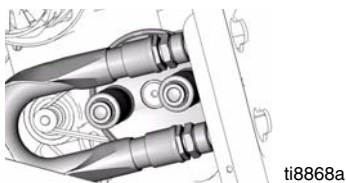


Reassemble

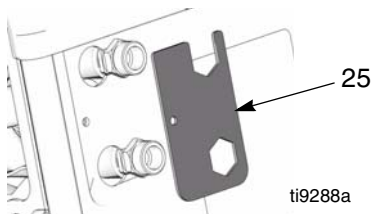
1. Bend hose (16) so colored dots on hose fittings face each other.



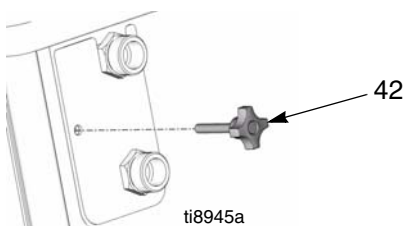
2. Slide new pump hose (16) in from side access panel. Move pump rollers by hand until or flip power switch to rotate rollers until they are positioned correctly with pump hose.



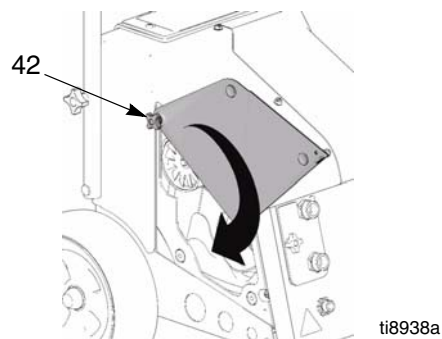
3. Replace hose bracket (25) to lock pump hose into place.



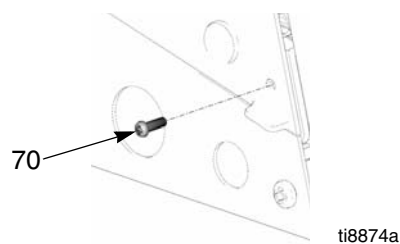
4. Tighten hose bracket knob (42).



5. Flip side access panel (13) down and tighten knob (42).



6. Replace and tighten screw (70) from side access panel.



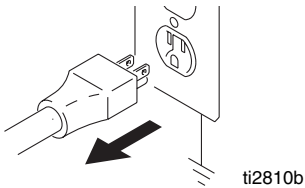
7. Break in new pump by adding 1 cup of water to pump and running dry for 3 minutes.

Compressor

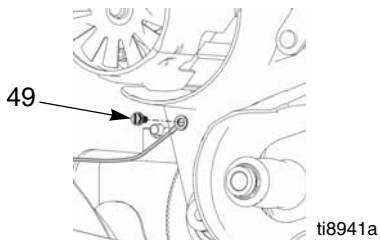
Use Compressor Repair Kit, 288612.

Disassembly

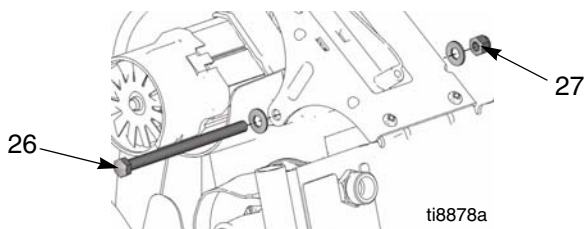
1. **Relieve Pressure**, page 6.
2. Unplug sprayer from outlet.



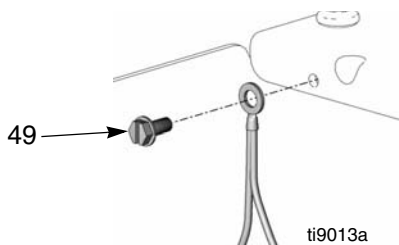
3. Remove **Shroud**, page 7.
4. Remove **RotoFlex™ II Pump** hose; page 9 or 10.
5. Unscrew and remove grounding screw (49) from compressor.



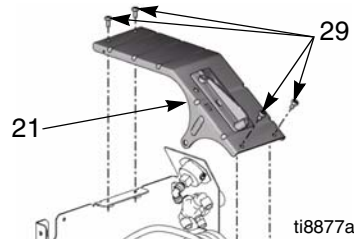
6. Use 9/16 in. socket and wrench to remove pivot bolt (26) and nut (27).



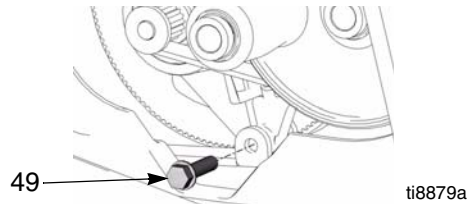
7. Unscrew and remove second 1/2 in. grounding screw (49) from bracket (21).



8. Remove 4 screws (29) and lift bracket (21) off of compressor.



9. Remove shoulder bolt (49) holding pump roller in place.



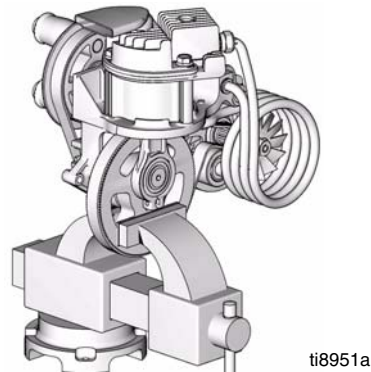
10. Use a wrench to push down on push-to-connect fittings and pull out all nylon hoses.



11. Disconnect all electrical wire connectors, see **Wiring Diagram**, page 27.

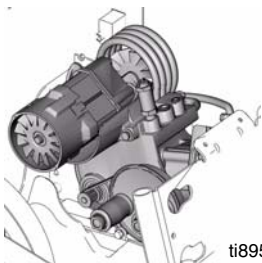
12. Thoroughly clean inside housing, removing dust and debris.

To service the compressor, remove it from the sprayer body and place it in a vice. Tighten the vice onto the main pulley to hold the compressor in place while servicing.



Reassembly

1. Carefully position compressor back into sprayer body. Make sure piston head facing front of sprayer.

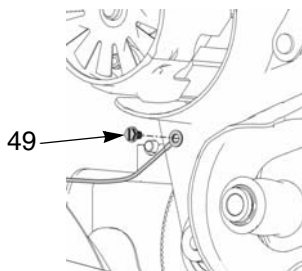


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2. Replace and tighten grounding screw (49).



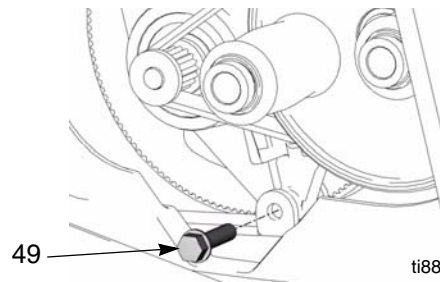
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3. Reattach air lines to compressor.



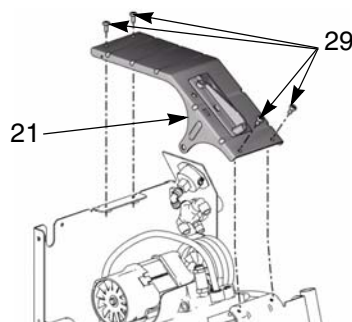
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4. Reattach 2 wires to compressor see **Wiring Diagram**, page 27.
5. Replace air cylinder and tighten shoulder bolt (49) to lock into place.



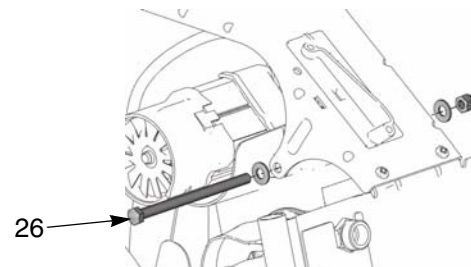
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6. Replace bracket (21) and tighten 4 screws (29).



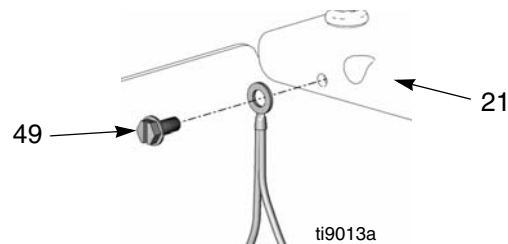
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7. Replace grounding screw (49) and tighten onto bracket (21).
8. Replace pivot bolt (26) and nut. Use 9/16 in. socket and wrench to tighten into place. Tighten screw until spring washers are flattened.



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9. Replace and tighten second grounding screw (49) to bracket (21).



ti9013a

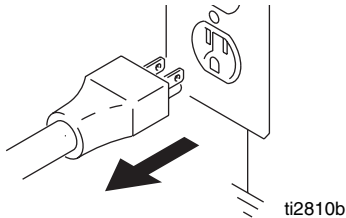
10. Replace **RotoFlex™ II Pump** hose; page 9 or 10.
11. Replace **Shroud**, page 7.

Piston/Cylinder

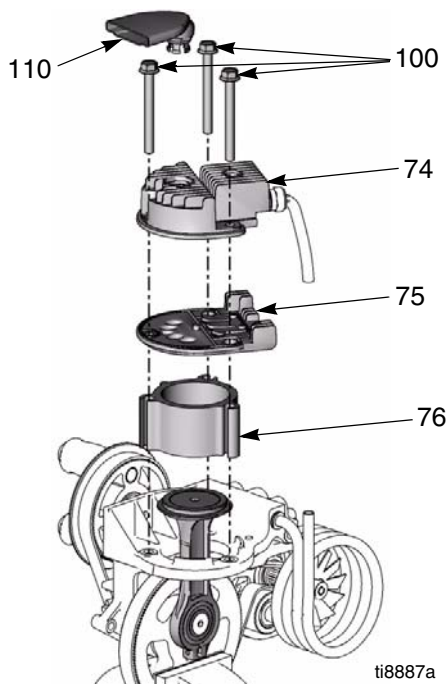
Use Piston/Cylinder Repair Kit 288609.

Disassembly

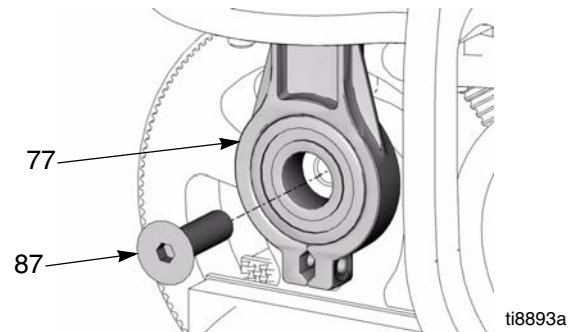
1. **Relieve Pressure**, page 6.
2. Unplug sprayer from outlet.



3. Remove **Shroud**, page 7.
4. Remove **RotoFlex™ II Pump** hose; page 9 or 10.
5. Remove **Compressor**, page 12.
6. Remove muffler (110) from head (74) by pulling straight out by hand.
7. Use 1/2 in. socket to remove three bolts (100) from head (74).



8. Use flat-blade screwdriver to pry head (74) from top of valve plate (75) and cylinder (76) from bottom of valve plate (75).
9. Use 7/32 in. allen wrench to remove hex screw (87) from piston rod (77).



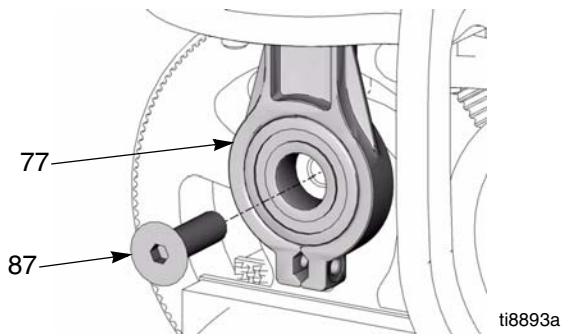
Reassembly

CAUTION

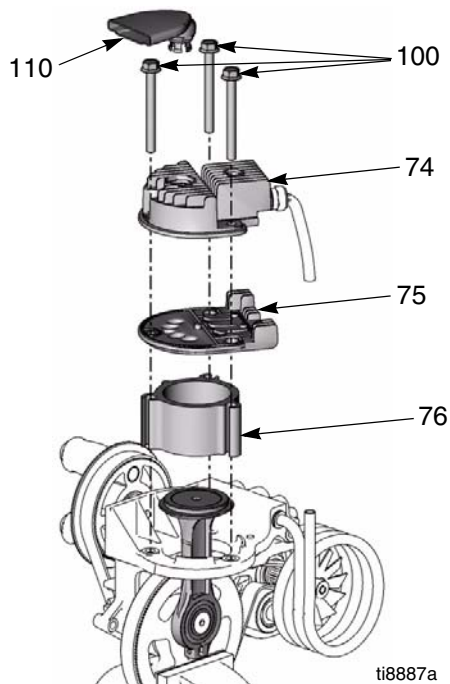
Piston and cylinder come packaged together. Do NOT let piston and cylinder come apart. If they do, make sure you drop the piston down through the top of the cylinder and tilt the piston as you pull it through the cylinder. Do NOT push the piston up from the bottom. You could easily damage the piston gasket.



1. Replace piston (77) and cylinder (76) and use 7/32 in. allen wrench to tighten hex screw (87) into piston rod.



2. Replace valve plate (75) with ribs facing up toward head.



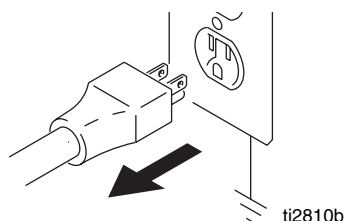
3. Replace three bolts (100) and use 1/2 in. socket to tighten into head (74). Torque all three bolts to 75 in-lb, then torque all bolts again to 210 in-lb.
4. Position muffler (110) as seen below and press onto head (74) until it snaps into place.
5. Replace **Compressor**, page 12.
6. Replace **RotoFlex™ II Pump** hose; page 9 or 10.
7. Replace **Shroud**, page 7.

Valve Plate

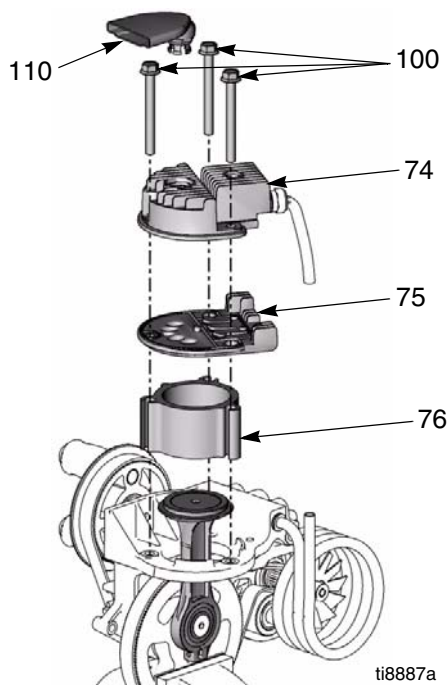
Use Valve Plate Repair Kit 288610.

Disassembly

1. **Relieve Pressure**, page 6.
2. Unplug sprayer from outlet.



3. Remove **Shroud**, page 7.
4. Remove **RotoFlex™ II Pump** hose; page 9 or 10.
5. Remove **Compressor**, page 12.
6. Remove muffler (110) from head (74) by pulling straight out by hand.
7. Use 1/2 in. socket to loosen and remove three bolts (100) from head (74).



8. Use flat-blade screwdriver to pry head (74) from top of valve plate (75) and cylinder (76) from bottom of valve plate (75).

Reassembly

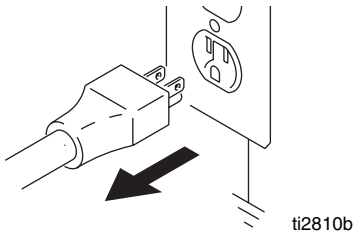
1. Replace valve plate (75) with ribs facing up toward ribs on head (74).
2. Replace three bolts (100) and use 1/2 in. socket to tighten into head (74). Torque all three bolts to 75 in-lb, then torque all bolts again to 210 in-lb.
3. Replace **Compressor**, page 12.
4. Replace **RotoFlex™ II Pump** hose; page 9 or 10.
5. Replace **Shroud**, page 7.

Motor

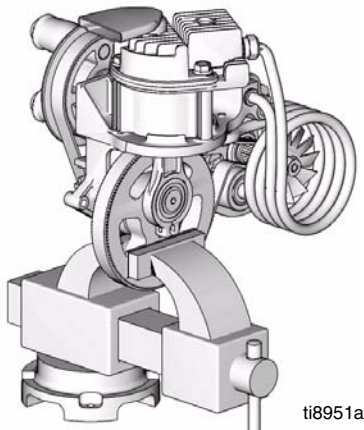
Use Motor Repair Kit 288613.

Disassembly

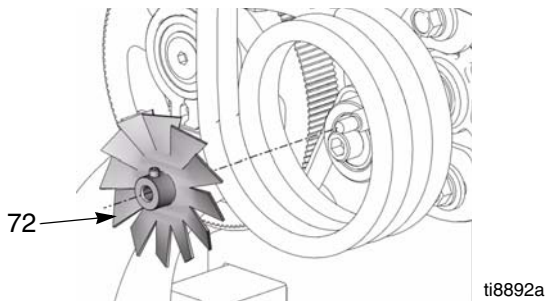
1. **Relieve Pressure**, page 6.
2. Unplug sprayer from outlet.



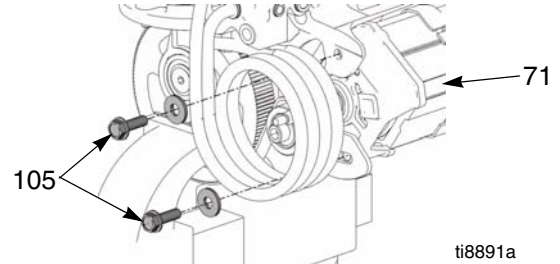
3. Remove **Shroud**, page 7.
4. Remove **RotoFlex™ II Pump** hose; page 9 or 10.
5. Remove **Compressor**, page 12.
6. Remove compressor from sprayer body and place it in a vice. Tighten the vice onto the main pulley to hold the compressor in place while servicing motor.



7. Loosen set screw and remove fan (72).



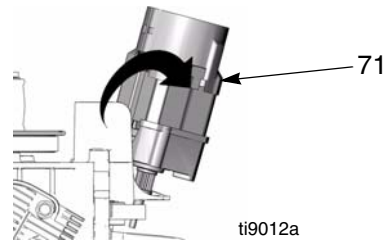
8. Use a box end wrench to loosen and remove two mounting bolts (105) on motor (71).



CAUTION

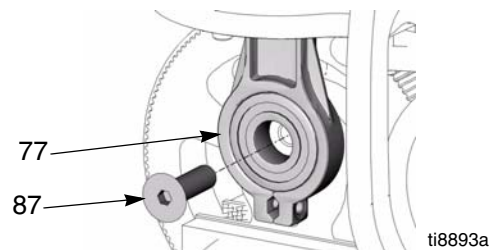
Be careful not to bend or damage the cooling tube when removing it from the motor.

9. Angle motor (71) and slide motor pulley through compressor belt to remove motor from compressor.

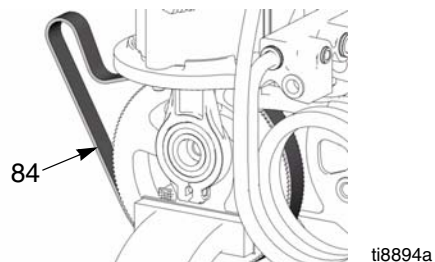


Compressor belt (84) should be replaced every time motor is replaced.

10. Use 7/32 in. allen wrench to remove hex screw (87) from piston rod (77).

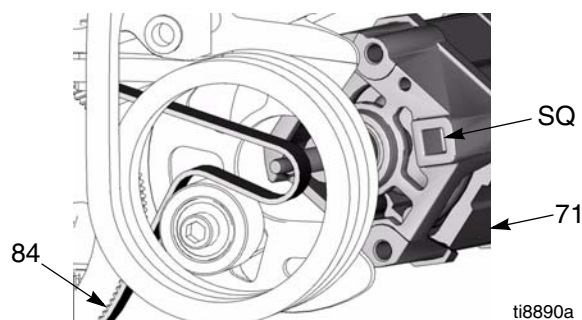


11. Remove compressor belt (84).



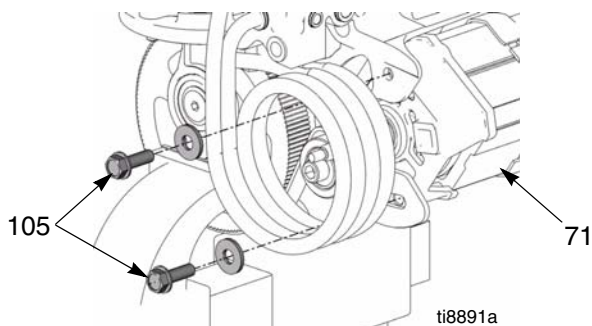
Reassembly

1. Angle motor pulley through compressor belt (84) and pull motor (71) into position.

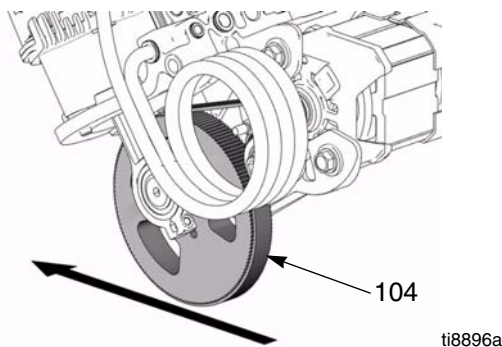


When replacing motor (71), make sure the square-shaped hole (SQ) is facing toward the outside of the compressor. This hole will be used to torque the mounting bolts.

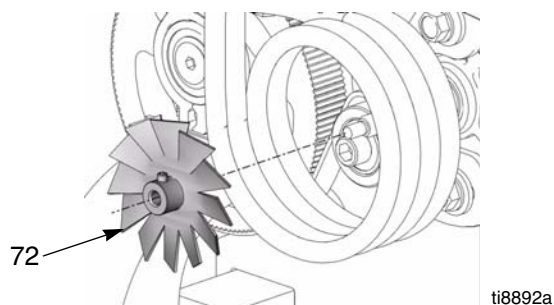
2. Tighten two mounting bolts (105) on motor (71) until snug, then back 1/8 of a turn.



3. Insert torque wrench into square hole (SQ) on motor and tighten bolts to 130-150 in-lb (this may require two people; one to torque while the other tightens mounting bolts). Tighten motor bolts (105).
4. Take compressor out of vice and rotate pump pulley (104) one full revolution to seat the belt properly.





5. Place compressor back into vice and torque bolts as described in steps 2 and 3.
6. Replace fan (72) and tighten set screw.



7. Replace **Compressor**; page 12.
8. Replace **RotoFlex™ II Pump** hose; page 9 or 10.
9. Replace **Shroud**, page 7.

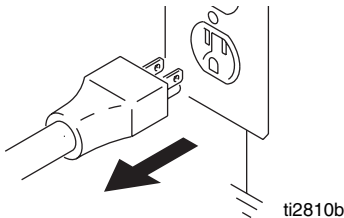
Cooling Tube

Use Cooler Repair Kit 288614.

						
<p>The cooling tube is extremely hot and can cause serious burns. Allow unit to completely cool before servicing the cooling tube.</p>						

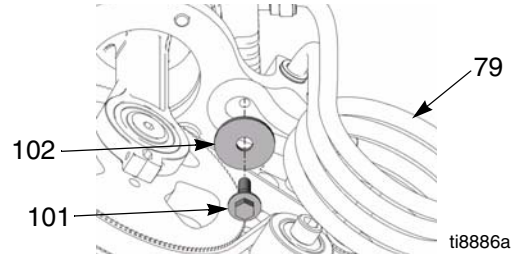
Disassembly

1. **Relieve Pressure**, page 6.
2. Unplug sprayer from outlet.



3. Remove **Shroud**, page 7.
4. Remove **RotoFlex™ II Pump** hose; page 9 or 10.
5. Remove **Compressor**, page 12.

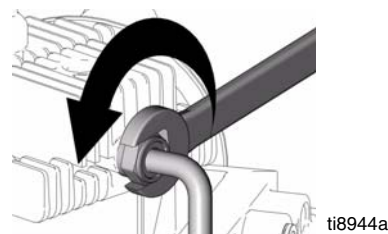
6. Use 3/8 in. socket to remove screw (101) and washer (102) under cooling tube (79).



7. Use wrench to push against fitting (86) and carefully pull cooling tube (79) out.

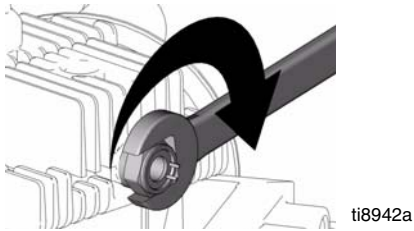


8. Use 5/8 in. wrench to unscrew cooling tube fitting.

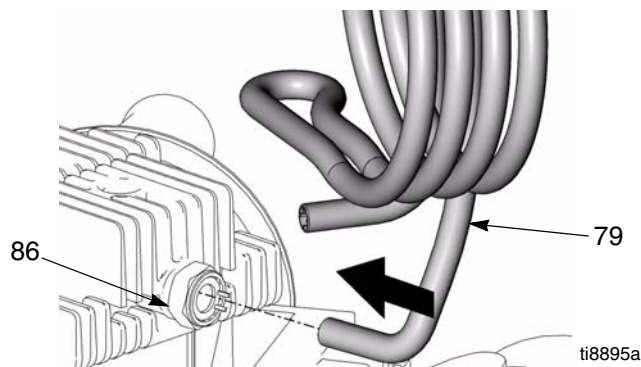


Reassembly

1. Insert new cooling tube fitting and use 5/8 in. wrench to tighten.



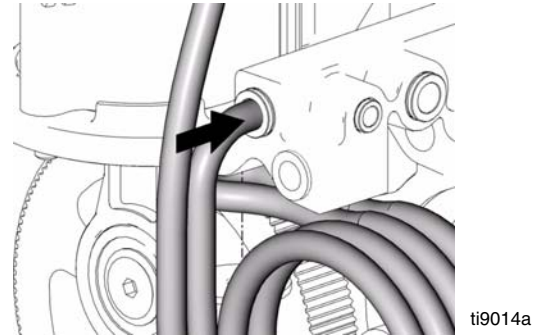
2. Insert cooling tube (79) and push into new fitting (86). Make sure tube is fully seated.



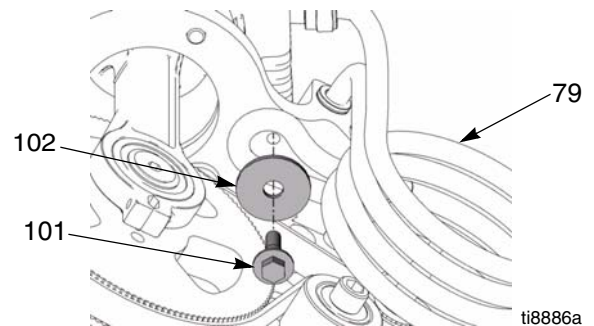
CAUTION

When replacing cooling tube, make sure coil is facing up when you push the tubing into the fitting. If you push from any other angle you could bend or damage the tube.

3. Rotate cooling tube around and insert free end into push-to-connect fitting. Make sure tube is fully inserted.



4. Replace screw (101) and washer (102) under cooling tube (79) and use 3/8 in. socket to tighten.



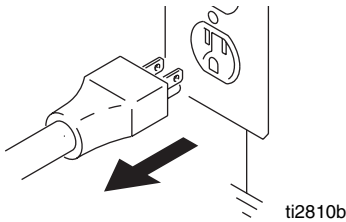
5. Replace **Compressor**; page 12.
6. Replace **RotoFlex™ II Pump** hose; page 9 or 10.
7. Replace **Shroud**, page 7.

Idler

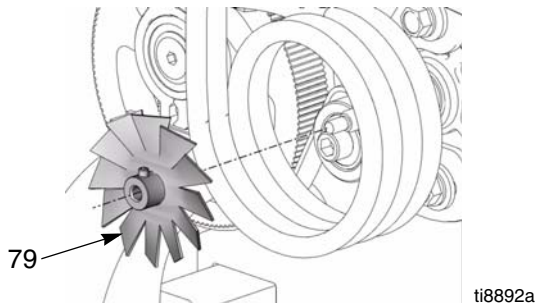
Use Idler Repair Kit 288611.

Disassembly

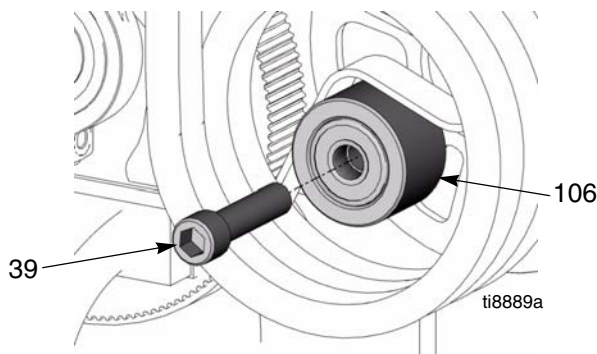
1. **Relieve Pressure**, page 6.
2. Unplug sprayer from outlet.




3. Remove **Shroud**, page 7.
4. Remove **RotoFlex™ II Pump** hose; page 9 or 10.
5. Remove **Compressor**, page 12.
6. Remove compressor belt, page 17.
7. Loosen set screw and remove fan (79).



8. Loosen screw (39) and remove Idler (106).



 Every time you replace the Idler you should also replace the compressor belt, page 17.

Reassembly

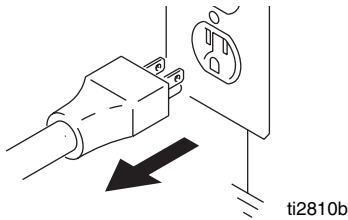
1. Install new compressor belt, page 17.
2. Replace new Idler (106) and tighten screw (39).
3. Replace fan (79) and tighten set screw.
4. Replace **Compressor**, page 12.
5. Replace **RotoFlex™ II Pump** hose; page 9 or 10.
6. Replace **Shroud**, page 7.

Roller Pulley/Belt

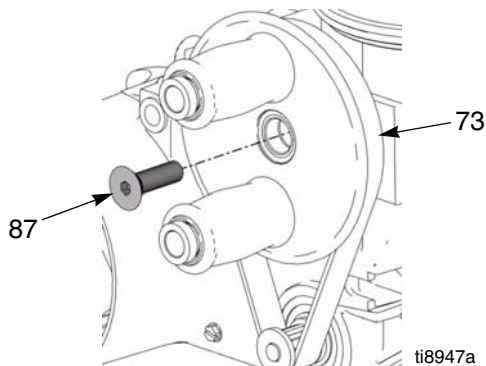
Use Roller Pulley Repair Kit 288616.

Disassembly

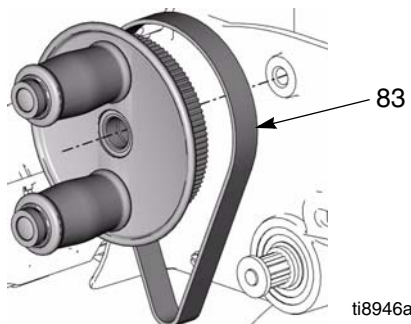
1. **Relieve Pressure**, page 6.
2. Unplug sprayer from outlet.




3. Remove **Shroud**, page 7.
4. Remove **RotoFlex™ II Pump** hose; page 9 or 10.
5. Remove **Compressor**, page 12.
6. Use 7/32 in. allen wrench to loosen roller mounting bolt (87) and remove roller pulley (73).



7. Remove belt (83) and discard.



 Every time you replace the roller pulley, you should also replace the belt.

Reassembly

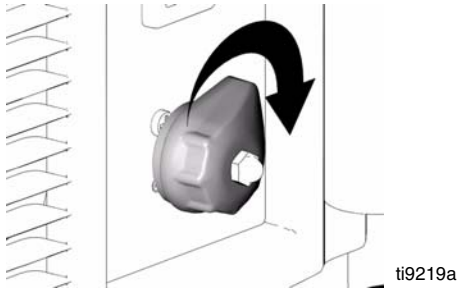
1. Install new compressor belt (83).
2. Loop belt over roller pulley and align roller with bolt hole.
3. Use 7/32 in. allen wrench to tighten bolt (87) to 20 ± 2 ft-lb.
4. Replace **Compressor**, page 12.
5. Replace **RotoFlex™ II Pump** hose; page 9 or 10.
6. Replace **Shroud**, page 7.

Selector Switch Knob

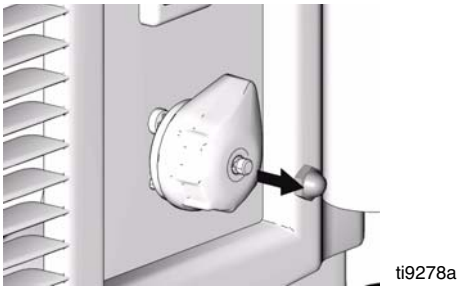
Use Knob Repair Kit 288756.

Disassembly

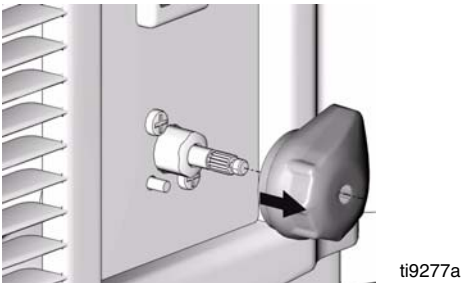
1. Turn selector switch knob clockwise as far as it will go.




2. Use wrench to remove nut from knob.



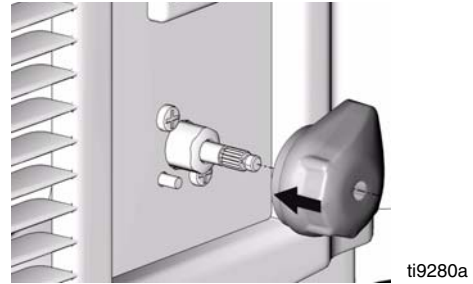
3. Pull knob straight off from sprayer.



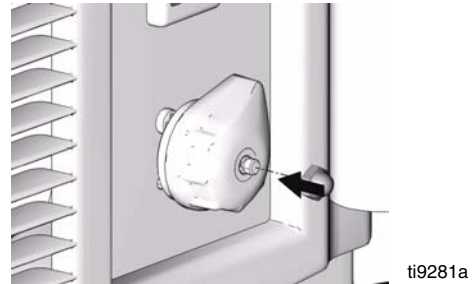
 Once knob has been removed, don't move the exposed spline. If it is moved, use your fingers to turn it clockwise as far as it will go for a tight fit prior to reassembly of knob. This will properly align knob to spline.

Assembly

1. Position new knob to point right (approximately 45° from vertical) and slide it onto exposed spline.



2. Apply Locktite (1 drop or small amount) to knob nut and tighten with wrench.



Regulator Valve

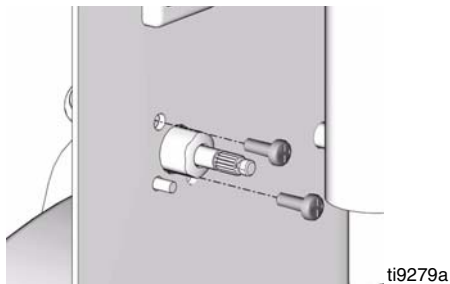
Use Regulator Repair Kit 288757.

Disassembly

1. Remove **Knob**, page 23.
2. Remove **Shroud**, page 7.
3. Use wrench to push against fitting (86) and carefully pull cooling tube (79) out.



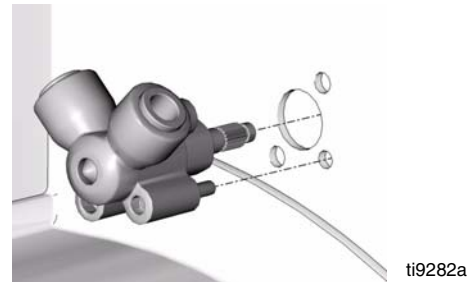
4. Use phillips screwdriver to remove two screws.



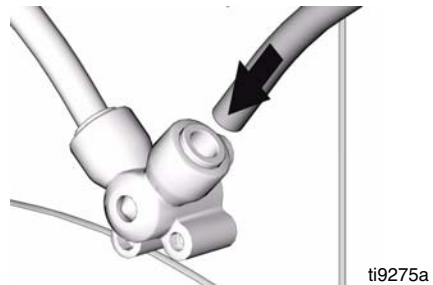
5. Remove old regulator valve.

Assembly

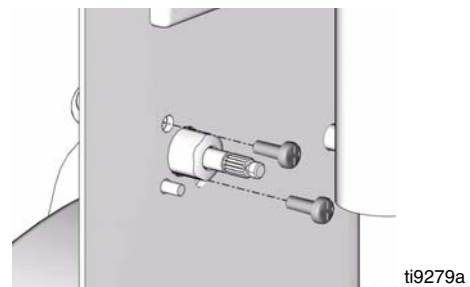
1. Replace new regulator valve and feed through 3 holes on side of sprayer.



2. Reattach two air lines.

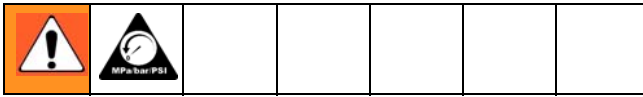


3. Replace two screws and tighten with phillips screwdriver.



4. Replace **Knob**, page 23.
5. Replace **Shroud**, page 7.

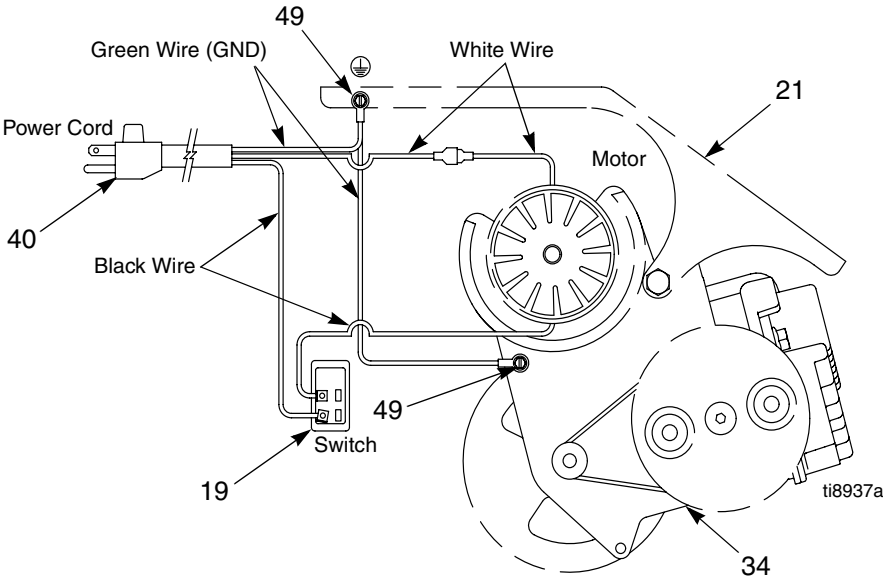
Troubleshooting



Problem	Cause	Solution
Sprayer won't run	Power switch not on	Turn switch on.
	No power at wall outlet	Check outlet by plugging in another appliance. If appliance does not work, try another outlet.
	Wrong size generator	Use a 3500 watt or larger generator. Refer to Generator Requirements, page 6.
	Breaker tripped	Reset breaker.
Pump won't pump material	Air lock	Open air valve on gun.
	Selector switch in wrong position	Move selector switch to correct position for application.
	Mix too thick	Add water to thin material. Use Material Thickness Gauge.
	Loose fittings	Check and retighten all fittings.
	Plugged gun	Relieve Pressure , page 6. Remove gun from hose. Clean gun.
	Pump hose worn out	Replace hose. Recommended hose replacement - once every year.
	Pump cold	Move pump to warm room and allow it to warm up or run hot water through sprayer.
Material runs out of bottom of sprayer	Pump hose worn out	Replace hose.
	Loose fittings	Check and retighten all fittings.
No air from compressor	Gun air valve closed	Open gun air valve.
	Low voltage	Check extension cord length and gauge. Replace if different than recommended. Refer to Grounding and Electrical Requirements, page 6.
	Gun needle plugged	Clean needle and retry.
	Worn compressor	Replace compressor. Contact a qualified Graco Service Center.
	Lines not connected	Check all quick disconnect connections to gun and hoses.
	Damaged hose	Replace hose.

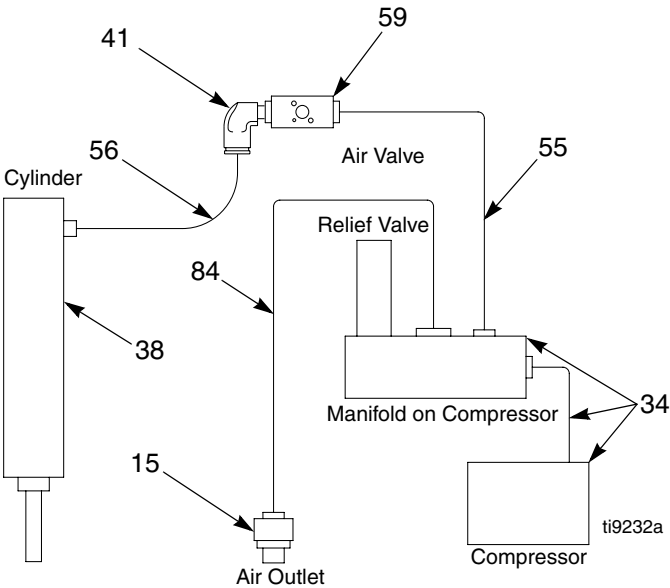
Problem	Cause	Solution
Speed of application slow or slower	Material too thick	Thin material.
	Nozzle too small	Change nozzles to a larger size. See Operation manual 311768.
	Too much air being used.	Partially close gun air valve to reduce air flow.
	Pump hose worn	Replace hose.
	Plugged or dirty gun	Relieve Pressure , page 6. Clean gun.
	Kinked hose	Unkink hose.
	Gun adjustment set too low	Increase flow adjustment with flow adjustment nut.
	Too many items on same circuit	Unplug other items from circuit.
	Extension cord too long or wrong gauge	Use a different extension cord. Refer to Grounding and Electric Requirements, page 6.
Intermittent flow/sputtering	Hopper connection not tight	Check gasket. Tighten connection.
	Debris in system	Clean system.
Quick disconnect does not stay connected.	Dirty or corroded fitting	Clean thoroughly. Soak in oil. Apply a few drops of light oil.
Gun will not shut off	Worn nozzle or needle.	Relieve Pressure , page 6. Replace worn parts.
	Debris in needle passage	Relieve Pressure , page 6. Clean.
Fluid leaking at Flow Adjustment Nut	Damaged seal.	Relieve Pressure , page 6. Replace seal.
Fluid leaking out of either plug	Missing or damaged o-rings	Relieve Pressure , page 6. Replace o-rings.
	Gun damaged	Replace gun.
Needle adjustment won't adjust	Dirty threads	Clean threads.
	Nozzle not on gun	Put nozzle on gun.

Wiring Diagram

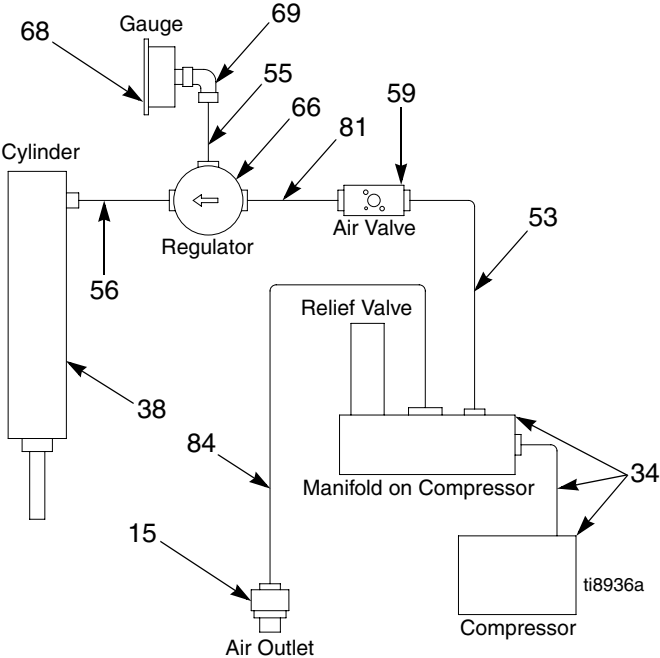


Air Diagram

RTX 900

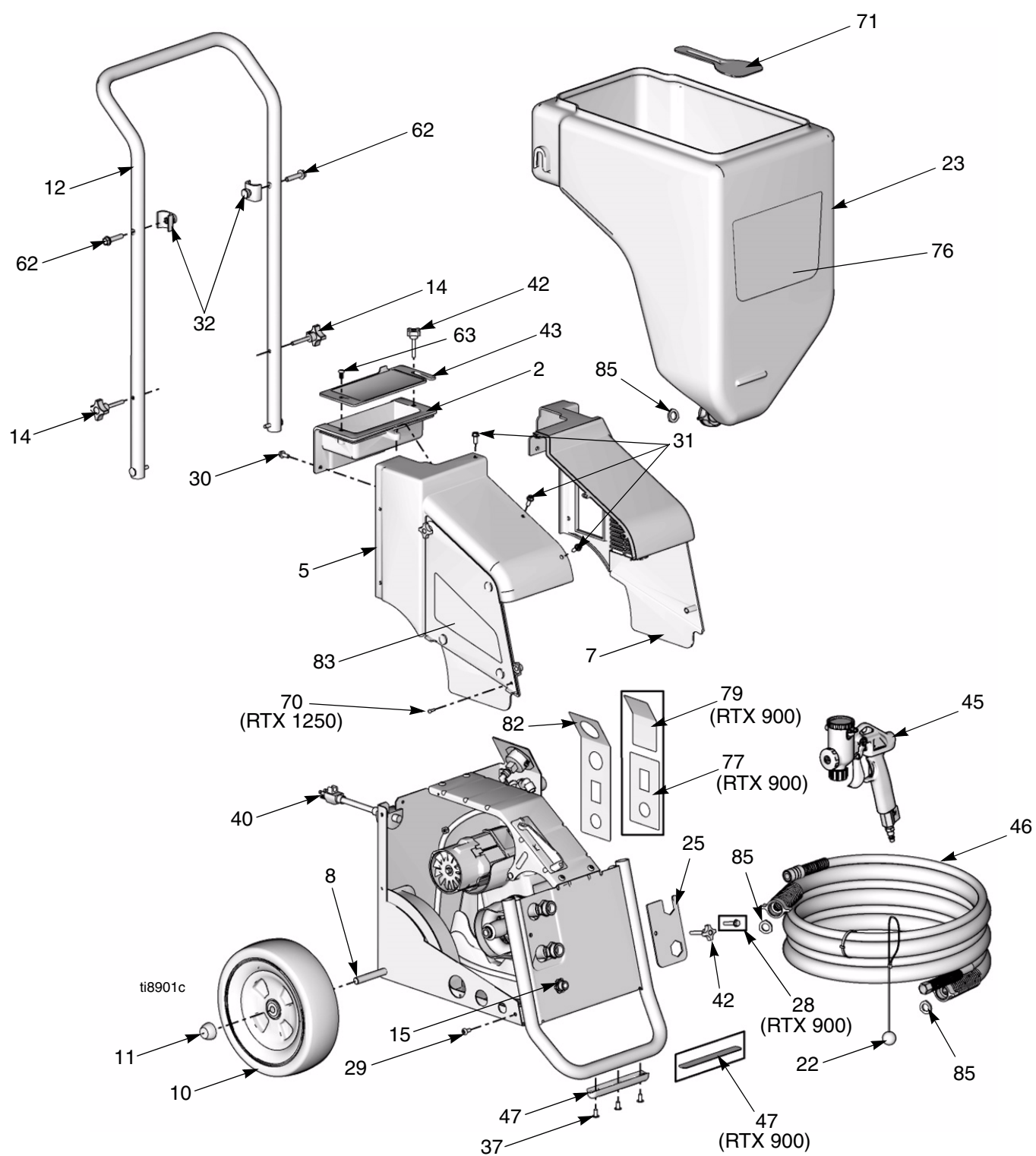


RTX 1250



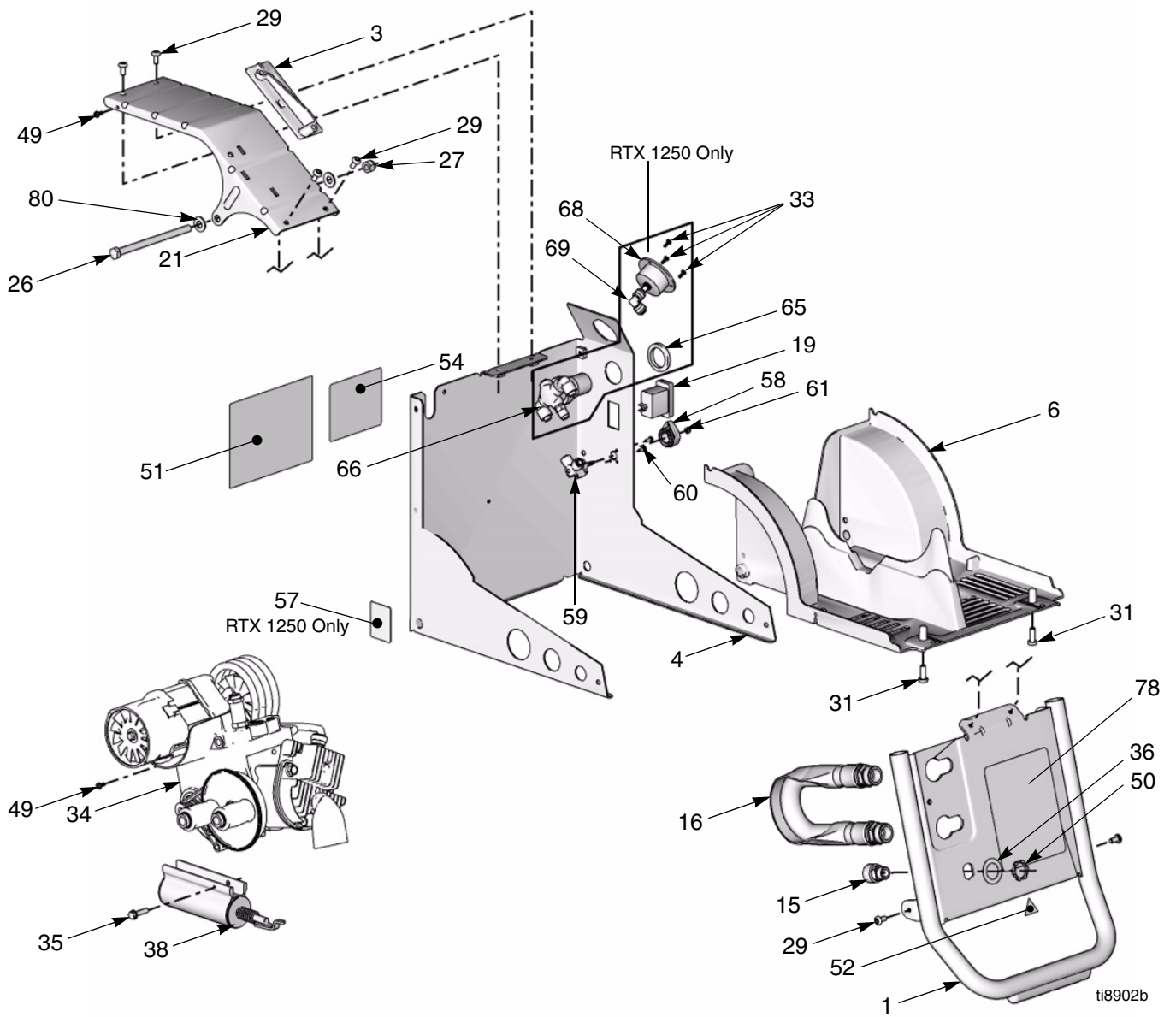
Parts

Models 254974 and 254975



Parts

Models 254974 and 254975



Parts

Models 254974

Ref. Part	Description	Qty.	Ref. Part	Description	Qty.
1	288386 PLATE, front, RTX	1	43	15D561 COVER, tool tray	1
2	15J600 TOOLBOX	1	45	288628 GUN, spray	1
3	15H069 SUPPORT, hopper, RTX	1	46	234147 HOSE	1
4	288384 FRAME, back, RTX (painted)	1	47	120759 PAD, non-slip, foot	1
5	288350 COVER, shroud; RTX 900	1	48	103473 STRAP, tie, wire	1
6	277319 SHIELD, bottom	1	49	115498 SCREW, mach, slot hex wash hd	2
7	288351 COVER, shroud; RTX 900	1	50	104227 NUT, lock	1
8	15J670 AXLE	1	51▲	15H841 LABEL, warning	1
10	115095 WHEEL, 9 in.	2	52▲	15K616 LABEL, caution	1
11	112612 CAP, hub	2	53	120694 TUBE, air	1
12	288314 HANDLE	1	54▲	15H868 LABEL, instruction	1
14	15H641 KNOB	2	55	120694 TUBE, air, .250	1
15	288336 FITTING, bulkhead, assembly	1	56	120569 TUBE, air, .250	1
16	288623 HOSE, pump, (Roto-Flex™)	1	58	288756 KIT, repair, knob	1
19	120660 SWITCH	1	59	288757 KIT, repair, regulator	1
21	15H910 BRACKET, pump, RTX	1		(includes 59, 60)	
22	15C090 GAUGE, thickness, fluid	1	60	120744 SCREW, mach, pnh	2
23	288093 HOPPER	1	61	120637 NUT, acorn	1
25	288515 PLATE, support, RTX (painted)	1	62	15C753 SCREW, machine, hex	2
26	105240 SCREW, cap hex hd	1		washer head	
27	113981 NUT, lock, high tensile	1	63	111831 SCREW, cap, skt, button hd	1
28	120444 SCREW	1	71	15H912 GUARD, burp	1
29	117630 SCREW, torx, tri lob	6	76	15K323 LABEL, hopper, RTX 900	1
30	117633 SCREW, slot hex wash hd	2	77	15K329 LABEL, control, RTX 900	1
31	120771 SCREW, mach, pnh	5	78	15K335 LABEL, front, RTX 900	1
32	15H605 HANGER	2	79	15K338 LABEL, shroud, RTX 900	1
34	288856 COMPRESSOR, pump assembly	1	80	120215 WASHER, belleville	2
35	120236 SCREW, shoulder	1	84	120567 TUBE, air, .250 OD	1
36	120731 WASHER, flat	1	85	115099 GASKET	3
38	289591 CYLINDER, RTX	1			
40	15J758 CORD, power	1			
41	113318 FITTING, elbow, plug-in	1			
42	15J862 KNOB, 1/4-20, 4 prong	1			

▲ Additional warning labels are available at no cost.

Parts

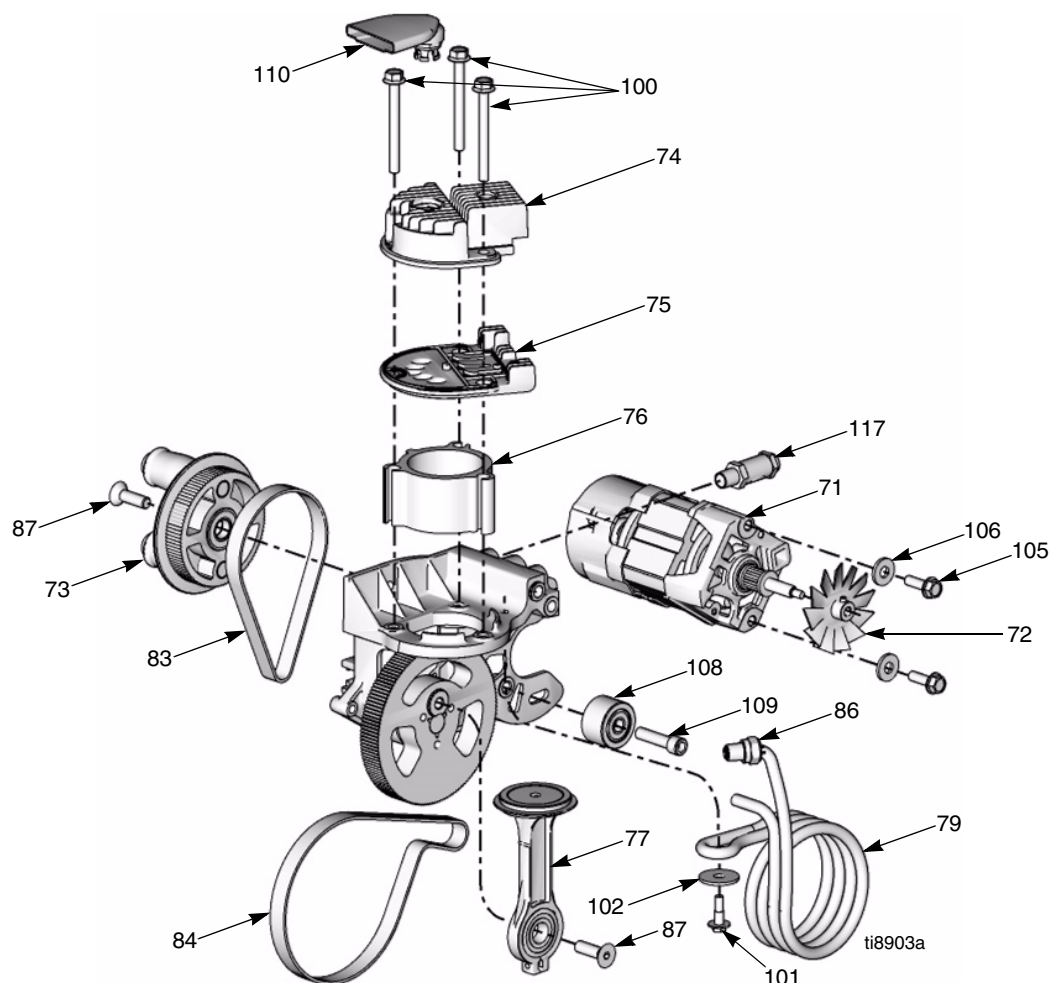
Models 254975

Ref	Part	Description	Qty	Ref	Part	Description	Qty
1	288386	PLATE, front, RTX	1	47	15K049	ISOLATOR, foot	1
2	15J600	TOOLBOX	1	49	115498	SCREW, mach, slot hex wash hd	2
3	15H069	SUPPORT, hopper, RTX	1	50	104227	NUT, lock	1
4	288384	FRAME, back, RTX (painted)	1	51▲	15H841	LABEL, warning	1
5	288650	COVER, shroud	1	52▲	15K616	LABEL, caution	1
6	277319	SHIELD, bottom	1	53	120694	TUBE, air	1
7	288382	COVER, shroud (painted)	1	54	15H868	LABEL, instruction	1
8	15J671	AXLE, RTX 1250	1	55	120568	TUBE, air, .250 OD	1
10	115094	WHEEL, 10	2	56	120569	TUBE, air, .250 OD	1
11	112612	CAP, hub	2	57▲	198492	LABEL, warning	1
12	288314	HANDLE, RTX (painted)	1	58	288756	KIT, repair, knob (includes 58, 61)	1
14	15H641	KNOB	2	59	288757	KIT, repair, regulator (includes 59, 60)	1
15	288336	FITTING, bulkhead, assembly	1	60	120744	SCREW, mach, pnh	2
16	288623	HOSE, coupled	1	61	120637	NUT, acorn	1
19	120660	SWITCH	1	62	15C753	SCREW, machine, hex washer head	2
21	15H910	BRACKET, pump, RTX	1	63	111831	SCREW, cap, skt, button hd	1
22	15C090	GAUGE, thickness, fluid	1	65	115244	NUT, regulator	1
23	288265	HOPPER	1	66	117694	REGULATOR, air, 1/8 in. npt	1
25	288515	PLATE, support, RTX (painted)	1	68	120665	GAUGE, pressure	1
26	105240	SCREW, cap hex hd	1	69	120653	FITTING, elbow	1
27	113981	NUT, lock, high tensile	1	70	120994	SCREW, mach, pnh	1
29	117630	SCREW, torx, tri lob	6	71	15H912	GUARD, burp	1
30	117633	SCREW, slot hex wash hd	3	76	15K322	LABEL, hopper, RTX1250	1
31	120771	SCREW	5	78	15K334	LABEL, front, RTX 1250	1
32	15H605	HANGER	2	80	120215	WASHER	2
33	115494	SCREW, mach, phillips, pan hd	3	81	120780	TUBE, air, .250 OD	1
34	288651	COMPRESSOR, pump assembly	1	82	15K328	LABEL, control, RTX1250	1
35	120236	SCREW, shoulder	1	83	15K364	LABEL, side panel, RTX1250	1
36	120731	WASHER, flat	1	84	120567	TUBE, air, .250 OD	1
37	120411	RIVET, blind	3	85	115099	GASKET	3
38	289591	CYLINDER, RTX	1				
40	15J758	CORD, power	1				
42	15J862	KNOB, 1/4-20, 4 prong	3				
43	15D561	COVER, tool tray	1				
46	234147	HOSE	1				
48	103473	STRAP, tie, wire	1				

▲ Additional warning labels available at no cost.

Parts

Compressor 288856 & 288651



Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
	288856	KIT, repair, compressor, complete (includes all items) RTX 900		77	288609	KIT, repair, piston/cylinder (includes 75, 76, 77, 87)	1
	288651	KIT, repair, compressor, complete (includes all items) RTX 1250		79	288614	KIT, repair, cooler (includes 79, 86)	1
	288612	KIT, repair, compressor, rebuild (includes 100, 74, 86, 75, 76, 77, 87)		83	120234	BELT	1
71	288613	KIT, repair, motor, universal, 120v (includes 71, 84, 105, 106)	1	84	120233	BELT	1
72	120466	FAN, repair, motor	1	86	120245	FITTING	1
73	288616	KIT, repair, pulley, w/rollers (includes 73, 83, 87)	1	87	120204	SCREW, mach, hex flat head	2
74	288746	KIT, repair, head, compressor (includes 74, 75)	1	95	120593	SCREW, mach, torx pan hd	3
75	288610	KIT, repair, plate, valve	1	100	120229	SCREW, hex flange	3
76		CYLINDER, compressor	1	101	118890	SCREW, shoulder	1
				102	120659	WASHER, flat	1
				105	260215	SCREW, hex hd	2
				106	100023	WASHER, flat	2
				108	288611	KIT, repair, idler (includes 108, 84)	1
				109	104272	SCREW, cap, sch	1
				110	15H940	FITTING	1
				117	120617	VALVE, pressure relief	1

Technical Data

Main unit power requirements	120 Vac, 60 Hz, 15A, 1 phase
Maximum fluid working pressure	70 psi, (4.9 bar)
Maximum air working pressure	50 psi, (3.5 bar)
Compressor specifications	Universal motor thermally protected, oil-less
Compressor air displacement	4.0 scfm at 45 psi
Generator required	3500W minimum
Electric Motor	Universal AC 14 Amp 1.5 Hp
Power Cord	16 AWG, 3-wire, 25 ft
Material hopper capacity	Model 254974: 8 gallons Model 254975: 10 gallons Gun material hopper: 3/4 gallon

Maximum delivery with texture	RTX 900 - 0.9 gpm (3.4 lpm) RTX 1250 - 1.25 gpm (4.7 lpm)
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Dimensions: RTX 900

Length	23 in. (584 mm) with handle
Width	18 in. (456 mm)
Height	40 in. (1016 mm)
Weight (includes hose and gun)	60 lb (27.2 kg)

Dimensions: RTX 1250

Length	24 in. (609 mm) with handle
Width	20 in. (508 mm)
Height	41 in. (1041 mm)
Weight (includes hose and gun)	65 lb (29.5 kg)

Wetted parts	brass, aluminum, plastic
Sound data	

Sound pressure level*	83.2 dB(A)
Sound power level**	97.5 dB(A)
Storage Temperature Range	35°F - 160°F (1.6°C - 71°C)
Operating Temperature Range	40°F - 115°F (4°C - 46°C)
Gun:	
Maximum Working Pressure	70 psi (4.9 bar)
Air Maximum Working Pressure	100 psi (6.895 bar)
CFM Rating	3.5 - 11 CFM
Weight	1.1 lb (500 g)

* Measured while spraying at 1 m

** Measured per ISO-3744

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

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This manual contains English: MM 311772

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Written in USA 2007, Revised 09/2008